

SEQUENCE LISTING

<110> Sheppard, Paul O.
 Baindur, Nand
 Deisher, Theresa A.
 Bishop, Paul D.

<120> DISINTEGRIN HOMOLOG

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 Thr Val Leu Glu Phe Gly Thr Arg Leu Asp Thr Lys Ala Arg His
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47

cag caa aaa cat aat aag gct gtc cat ctg gcc cag gca agc ttc cag
 Gln Gln Lys His Asn Lys Ala Val His Leu Ala Gln Ala Ser Phe Gln
 20 25 30

95

att gaa gcc ttc ggc tcc aaa ttc att ctt gac ctc ata ctg aac aat
 Ile Glu Ala Phe Gly Ser Lys Phe Ile Leu Asp Leu Ile Leu Asn Asn
 35 40 45

143

gg t tg ttg tct tct gat tat gtg gag att cac tac gaa aat ggg aaa
 Gly Leu Leu Ser Ser Asp Tyr Val Glu Ile His Tyr Glu Asn Gly Lys
 50 55 60

191

cca cag tac tct aag ggt gga gag cac tgt tac tac cat gga agc atc Pro Gln Tyr Ser Lys Gly Gly Glu His Cys Tyr Tyr His Gly Ser Ile	239
65 70 75	
aga ggc gtc aaa gac tcc aag gtg gct ctg tca acc tgc aat gga ctt Arg Gly Val Lys Asp Ser Lys Val Ala Leu Ser Thr Cys Asn Gly Leu	287
80 85 90 95	
cat ggc atg ttt gaa gat gat acc ttc gtg tat atg ata gag cca cta His Gly Met Phe Glu Asp Asp Thr Phe Val Tyr Met Ile Glu Pro Leu	335
100 105 110	
gag ctg gtt cat gat gag aaa agc aca ggt cga cca cat ata atc cag Glu Leu Val His Asp Glu Lys Ser Thr Gly Arg Pro His Ile Ile Gln	383
115 120 125	
aaa acc ttg gca gga cag tat tct aag caa atg aag aat ctc act atg Lys Thr Leu Ala Gly Gln Tyr Ser Lys Gln Met Lys Asn Leu Thr Met	431
130 135 140	
gaa aga ggt gac cag tgg ccc ttt ctc tct gaa tta cag tgg ttg aaa Glu Arg Gly Asp Gln Trp Pro Phe Leu Ser Glu Leu Gln Trp Leu Lys	479
145 150 155	
aga agg aag aga gca gtg aat cca tca cgt ggt ata ttt gaa gaa atg Arg Arg Lys Arg Ala Val Asn Pro Ser Arg Gly Ile Phe Glu Glu Met	527
160 165 170 175	
aaa tat ttg gaa ctt atg att ggt aat gat cac aaa acg tat aag aag Lys Tyr Leu Glu Leu Met Ile Gly Asn Asp His Lys Thr Tyr Lys Lys	575
180 185 190	
cat cgc tct tct cat gca cat acc aac aac ttt gca aag tcc gtg gtc His Arg Ser Ser His Ala His Thr Asn Asn Phe Ala Lys Ser Val Val	623
195 200 205	
aac ctt gtg gat tct att tac aag gag cag ctc aac acc agg gtt gtc Asn Leu Val Asp Ser Ile Tyr Lys Glu Gln Leu Asn Thr Arg Val Val	671
210 215 220	
ctg gtg gct gta gag acc tgg act gag aag gat cag att gac atc acc Leu Val Ala Val Glu Thr Trp Thr Glu Lys Asp Gln Ile Asp Ile Thr	719
225 230 235	

acc aac cct gtg cag atg ctc cat gag ttc tca aaa tac cgg cag cgc	767
Thr Asn Pro Val Gln Met Leu His Glu Phe Ser Lys Tyr Arg Gln Arg	
240 245 250 255	
att aag cag cat gct gat gct gtg cac ctc atc tcg cgg gtg aca ttt	815
Ile Lys Gln His Ala Asp Ala Val His Leu Ile Ser Arg Val Thr Phe	
260 265 270	
cac tat aag aga agc agt ctg agt tac ttt gaa ggt gtc tgt tct cgc	863
His Tyr Lys Arg Ser Ser Leu Ser Tyr Phe Glu Gly Val Cys Ser Arg	
275 280 285	
aca aga gga gtt ggt gtg aat gag tat ggt ctt cca atg gca gtg gca	911
Thr Arg Gly Val Gly Val Asn Glu Tyr Gly Leu Pro Met Ala Val Ala	
290 295 300	
caa gta tta tcg cag agc ctg gct caa aac ctt gga atc caa tgg gaa	959
Gln Val Leu Ser Gln Ser Leu Ala Gln Asn Leu Gly Ile Gln Trp Glu	
305 310 315	
cct tct agc aga aag cca aaa tgt gac tgc aca gaa tcc tgg ggt ggc	1007
Pro Ser Ser Arg Lys Pro Lys Cys Asp Cys Thr Glu Ser Trp Gly Gly	
320 325 330 335	
tgc atc atg gag gaa aca ggg gtg tcc cat tct cga aaa ttt tca aag	1055
Cys Ile Met Glu Glu Thr Gly Val Ser His Ser Arg Lys Phe Ser Lys	
340 345 350	
tgc agc att ttg gag tat aga gac ttt tta cag aga gga ggt gga gcc	1103
Cys Ser Ile Leu Glu Tyr Arg Asp Phe Leu Gln Arg Gly Gly Ala	
355 360 365	
tgc ctt ttc aac agg cca aca aag cta ttt gag ccc acg gaa tgt gga	1151
Cys Leu Phe Asn Arg Pro Thr Lys Leu Phe Glu Pro Thr Glu Cys Gly	
370 375 380	
aat gga tac gtg gaa gct ggg gag gag tgt gat tgt ggt ttt cat gtg	1199
Asn Gly Tyr Val Glu Ala Gly Glu Cys Asp Cys Gly Phe His Val	
385 390 395	
gaa tgc tat gga tta tgc tgt aag aaa tgt tcc ctc tcc aac ggg gct	1247
Glu Cys Tyr Gly Leu Cys Cys Lys Lys Cys Ser Leu Ser Asn Gly Ala	
400 405 410 415	

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gaa tat tgt act gga gac tct ggt cag tgc cca cca aat ctt cat aag Glu Tyr Cys Thr Gly Asp Ser Gly Gln Cys Pro Pro Asn Leu His Lys 450 455 460	1391
caa gac gga tat gca tgc aat caa aat cag ggc egc tgc tac aat ggc Gln Asp Gly Tyr Ala Cys Asn Gln Asn Gln Gly Arg Cys Tyr Asn Gly 465 470 475	1439
gag tgc aag acc aga gac aac cag tgt cag tac atc tgg gga aca aag Glu Cys Lys Thr Arg Asp Asn Gln Cys Gln Tyr Ile Trp Gly Thr Lys 480 485 490 495	1487
gct gca ggg tct gac aag ttc tgc tat gaa aag ctg aat aca gaa ggc Ala Ala Gly Ser Asp Lys Phe Cys Tyr Glu Lys Leu Asn Thr Glu Gly 500 505 510	1535
act gag aag gga aac tgc ggg aag gat gga gac cggt tgg att cag tgc Thr Glu Lys Gly Asn Cys Gly Lys Asp Gly Asp Arg Trp Ile Gln Cys 515 520 525	1583
agc aaa cat gat gtg ttc tgt gga ttc tta ctc tgt acc aat ctt act Ser Lys His Asp Val Phe Cys Gly Phe Leu Leu Cys Thr Asn Leu Thr 530 535 540	1631
cga gct cca cgt att ggt caa ctt cag ggt gag atc att cca act tcc Arg Ala Pro Arg Ile Gly Gln Leu Gln Gly Glu Ile Ile Pro Thr Ser 545 550 555	1679
ttc tac cat caa ggc cggt gat gac tgc agt ggt gcc cat gta gtt Phe Tyr His Gln Gly Arg Val Ile Asp Cys Ser Gly Ala His Val Val 560 565 570 575	1727
tta gat gat gat acg gat gtg ggc tat gta gaa gat gga acg cca tgt Leu Asp Asp Asp Thr Asp Val Gly Tyr Val Glu Asp Gly Thr Pro Cys 580 585 590	1775

ggc ccg tct atg atg tgt tta gat cg ^g aag tgc cta caa att caa gcc Gly Pro Ser Met Met Cys Leu Asp Arg Lys Cys Leu Gln Ile Gln Ala 595 600 605	1823
cta aat atg agc agc tgt cca ctc gat tcc aag ggt aaa gtc tgt tcg Leu Asn Met Ser Ser Cys Pro Leu Asp Ser Lys Gly Lys Val Cys Ser 610 615 620	1871
ggc cat ggg gtg tgt agt aat gaa gcc acc tgc att tgt gat ttc acc Gly His Gly Val Cys Ser Asn Glu Ala Thr Cys Ile Cys Asp Phe Thr 625 630 635	1919
tgg gca ggg aca gat tgc agt atc cgg gat cca gtt agg aac ctt cac Trp Ala Gly Thr Asp Cys Ser Ile Arg Asp Pro Val Arg Asn Leu His 640 645 650 655	1967
ccc ccc aag gat gaa gga ccc aag ggt ttg tgt gat ttt ggt ttc aat Pro Pro Lys Asp Glu Gly Pro Lys Gly Leu Cys Asp Phe Gly Phe Asn 660 665 670	2015
tca tgg aat act gaa ttc gtt gac act gtt cca atg cac cag tat aac Ser Trp Asn Thr Glu Phe Val Asp Thr Val Pro Met His Gln Tyr Asn 675 680 685	2063
att cta att gac tta aga gga gac aca taagaatatc ngttttgcc Ile Leu Ile Asp Leu Arg Gly Asp Thr 690 695	2110
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Gln Lys His Asn Lys Ala Val His Leu Ala Gln Ala Ser Phe Gln Ile 20 25 30	
Glu Ala Phe Gly Ser Lys Phe Ile Leu Asp Leu Ile Leu Asn Asn Gly 35 40 45	

Leu Leu Ser Ser Asp Tyr Val Glu Ile His Tyr Glu Asn Gly Lys Pro
 50 55 60
 Gln Tyr Ser Lys Gly Gly Glu His Cys Tyr Tyr His Gly Ser Ile Arg
 65 70 75 80
 Gly Val Lys Asp Ser Lys Val Ala Leu Ser Thr Cys Asn Gly Leu His
 85 90 95
 Gly Met Phe Glu Asp Asp Thr Phe Val Tyr Met Ile Glu Pro Leu Glu
 100 105 110
 Leu Val His Asp Glu Lys Ser Thr Gly Arg Pro His Ile Ile Gln Lys
 115 120 125
 Thr Leu Ala Gly Gln Tyr Ser Lys Gln Met Lys Asn Leu Thr Met Glu
 130 135 140
 Arg Gly Asp Gln Trp Pro Phe Leu Ser Glu Leu Gln Trp Leu Lys Arg
 145 150 155 160
 Arg Lys Arg Ala Val Asn Pro Ser Arg Gly Ile Phe Glu Glu Met Lys
 165 170 175
 Tyr Leu Glu Leu Met Ile Gly Asn Asp His Lys Thr Tyr Lys Lys His
 180 185 190
 Arg Ser Ser His Ala His Thr Asn Asn Phe Ala Lys Ser Val Val Asn
 195 200 205
 Leu Val Asp Ser Ile Tyr Lys Glu Gln Leu Asn Thr Arg Val Val Leu
 210 215 220
 Val Ala Val Glu Thr Trp Thr Glu Lys Asp Gln Ile Asp Ile Thr Thr
 225 230 235 240
 Asn Pro Val Gln Met Leu His Glu Phe Ser Lys Tyr Arg Gln Arg Ile
 245 250 255
 Lys Gln His Ala Asp Ala Val His Leu Ile Ser Arg Val Thr Phe His
 260 265 270
 Tyr Lys Arg Ser Ser Leu Ser Tyr Phe Glu Gly Val Cys Ser Arg Thr
 275 280 285
 Arg Gly Val Gly Val Asn Glu Tyr Gly Leu Pro Met Ala Val Ala Gln
 290 295 300
 Val Leu Ser Gln Ser Leu Ala Gln Asn Leu Gly Ile Gln Trp Glu Pro
 305 310 315 320
 Ser Ser Arg Lys Pro Lys Cys Asp Cys Thr Glu Ser Trp Gly Gly Cys
 325 330 335
 Ile Met Glu Glu Thr Gly Val Ser His Ser Arg Lys Phe Ser Lys Cys
 340 345 350
 Ser Ile Leu Glu Tyr Arg Asp Phe Leu Gln Arg Gly Gly Ala Cys
 355 360 365
 Leu Phe Asn Arg Pro Thr Lys Leu Phe Glu Pro Thr Glu Cys Gly Asn
 370 375 380
 Gly Tyr Val Glu Ala Gly Glu Glu Cys Asp Cys Gly Phe His Val Glu
 385 390 395 400

Cys Tyr Gly Leu Cys Cys Lys Cys Ser Leu Ser Asn Gly Ala His
 405 410 415
 Cys Ser Asp Gly Pro Cys Cys Asn Asn Thr Ser Cys Leu Phe Gln Pro
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 Arg Gly Tyr Glu Cys Arg Asp Ala Val Asn Glu Cys Asp Ile Thr Glu
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 Tyr Cys Thr Gly Asp Ser Gly Gln Cys Pro Pro Asn Leu His Lys Gln
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 Asp Gly Tyr Ala Cys Asn Gln Asn Gln Gly Arg Cys Tyr Asn Gly Glu
 465 470 475 480
 Cys Lys Thr Arg Asp Asn Gln Cys Gln Tyr Ile Trp Gly Thr Lys Ala
 485 490 495
 Ala Gly Ser Asp Lys Phe Cys Tyr Glu Lys Leu Asn Thr Glu Gly Thr
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 Glu Lys Gly Asn Cys Gly Lys Asp Gly Asp Arg Trp Ile Gln Cys Ser
 515 520 525
 Lys His Asp Val Phe Cys Gly Phe Leu Leu Cys Thr Asn Leu Thr Arg
 530 535 540
 Ala Pro Arg Ile Gly Gln Leu Gln Gly Glu Ile Ile Pro Thr Ser Phe
 545 550 555 560
 Tyr His Gln Gly Arg Val Ile Asp Cys Ser Gly Ala His Val Val Leu
 565 570 575
 Asp Asp Asp Thr Asp Val Gly Tyr Val Glu Asp Gly Thr Pro Cys Gly
 580 585 590
 Pro Ser Met Met Cys Leu Asp Arg Lys Cys Leu Gln Ile Gln Ala Leu
 595 600 605
 Asn Met Ser Ser Cys Pro Leu Asp Ser Lys Gly Lys Val Cys Ser Gly
 610 615 620
 His Gly Val Cys Ser Asn Glu Ala Thr Cys Ile Cys Asp Phe Thr Trp
 625 630 635 640
 Ala Gly Thr Asp Cys Ser Ile Arg Asp Pro Val Arg Asn Leu His Pro
 645 650 655
 Pro Lys Asp Glu Gly Pro Lys Gly Leu Cys Asp Phe Gly Phe Asn Ser
 660 665 670
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aayggnaarc cncartayws naargnggn garcaytgyt aytaycaygg nwsnathmgn	240
ggn gtnaarg aywsnaargt ngcnytnwsn acntgyaayg gnytncaygg natgttygar	300
gaygayacnt tygtntayat gathgarccn ytn garytng tncaygayga raarwsnacn	360
ggnmgncnc ayathathca raaracnytn gcngncart aywsnaarca ratgaaraay	420
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aaytgcna arwsngtngt naaytngtn gaywsnatht ayaargarca rytnaayacn	660
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aayccngtnc aratgytnca ygarttywsn aartaymgn armgna thaa rcarcaygc	780
gaygcngtnc ayytnathws nmgngtnacn ttcaytaya armgnwsnws nytnwsntay	840
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gcngtngcnc argtynwns ncarwsnytn gcncaraayy tngnathca rtggarccn	960
wsnwsnmgna arccnaartg ygaytgyacn garwsntgg gngngtgyat hatggargar	1020
acngngtnw sncaywsnmg naarttywsn aartgywsn thytngarta ymgngayt	1080
ytn carmng gngngngnc ntgyyntty aaymgnccna cnaarytnn ygarccnacn	1140
gartgyggna aygntaygt ngargcngn gargartgyg aytyggntt ycaytngar	1200
tgytayggny tntgytgyaa raartgywsn ytnwsnaayg gngcncaytg ywsngaygn	1260
ccntgytgya ayaayanws ntgyyntty carccnmng gntaygارت ymgngaygc	1320
gtynaaygart gygayaathac ngartaytgy acngngayw sngncartg yccnccnaay	1380
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aaytncnacnm gngcncnm nathgncar ytn cargng arathathcc nacnwsntt	1680
taycaycarg gnmgn tnat h gaytgywsn gngcncayg tngtntyng a ygaygaya	1740
gaytngngt aygtngarga ygnacnccn tgyggncnw snatgatgt gytnaymgn	1800
aartgytnc arathcargc nytnaayatg wsnwsntgyc cnytngayws naargnaar	1860
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gnggnacng aytygwsnat hmgnayccn gtnmgnayy tncayccncc naargaygar	1980
gnccnaarg gnytntgyga ytyggntt aaywsntgga ayacngartt ygtngayacn	2040

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